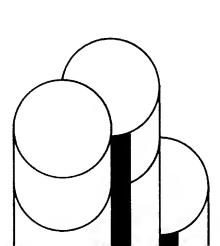
Reference Summary

IBM 3380 Direct Access Storage

GX26-1678-0





3380 Device Characteristics

Physical Characteristics					
Head and Disk Assemblies					
per Unit	2				
Access Mechanisms per					
Head and Disk Assembly	2				
Heads per Access Mechanism	15	data			
		and			
	1	servo			
Cylinders per Access Mechanism					
Data	885				
Alternate	1				
Customer Engineer	1				
Data Tracks per Cylinder	15				
Tracks per Access Mechanism					
Data	13,275				
Alt <i>e</i> rnates	15				
Maximum Data Capacity					
per Track	47,476	bytes			
per Cylinder	712,140	bytes			
per Access Mechanism	630.2	MB			
per Head and Disk Assembly	1.26	GB			
per Unit	2.52	GB			
per String	10.0B	GB			

Performance Characteristics				
Seek Time ¹	•			
Minimum	3.0	ms		
Average	16.0	ms		
Maximum	30.0	ms		
Rotational Delay Time ²	8.3	ms		
Data Rate ³	3.0	MB/sec		

Notes:

- Seek time, or access motion time, is the time required to position the access mechanism at the track (cylinder). The average seek time is for one third of the cylinders. If the mechanism is already at the correct track (cylinder), there is no access motion and seek time is zero.
- Rotational delay time, or rotational latency time, is the average time required for the specified record to rotate to the read and write head so that the data transfer can begin. It is one-half the disk rotation time.
- 3. Data rate is the instantaneous speed at which bytes are transferred.

Space Calculation Formula

Space calculations are determined for physical records.

All data on a 3380 is written in 32-byte increments.

The number of equal length physical records per track can be calculated as follows. Track overhead for the home address, track descriptor record (RO), and skip defect allowance has already been accounted for.

Equal length records per track =
$$\frac{1499}{C + K + D}$$

- 1499 is the number of 32-byte increments per track available for user data records.
- C is the number of 32-byte increments used by the record overhead including gaps and the count area.
- K is the number of 32-byte increments used by the key area.
- D is the number of 32-byte increments used by the data area.
- KL is the key length in bytes.
- DL is the data length in bytes.

where
$$C = 15$$
 if $KL = 0$
 $C = 22$ if $KL \neq 0$
 $K = 0$ if $KL = 0$

$$K\dagger = \frac{KL + 12}{32} \text{ if } KL \neq 0$$

$$D\dagger = \frac{DL + 12}{32}$$

† These values are rounded up to the next integer. KL and DL each must have 12 added and each must be rounded up to a multiple of 32.

Notes



Space Calculation Tables

The following tables give the number of equal length records of given byte sizes that can be placed on a track and cylinder. Also given are the total number of bytes used on the track and cylinder for the particular number of records.

One table gives the calculations for records without keys. The size of the record is the data length (DL). The other table gives the calculations for records with keys. The size of the record is the data length (DL) + the key length (KL). DL and KL are both rounded up to multiples of 32-12.

For example, for records without keys, data lengths from 7,477 to 9,076 bytes allow 5 records per track and 75 records per cylinder. Five records of 9,076 bytes use a total of 45,380 bytes of the capacity of a track.

Equal Length Physical Records Without Keys

(Max) Records Bytes Records Bytes 47,476 1 47,476 15 712,140 23,476 2 46,952 30 704,280 15,476 3 46,428 45 696,420 11,476 4 45,904 60 688,560 9,076 5 45,380 75 680,700 7,476 6 44,856 90 672,840 6,356 7 44,492 105 667,380 5,492 8 43,936 120 659,040 4,820 9 43,380 135 650,700 4,276 10 42,760 150 641,400 3,188 13 41,444 195 621,680 3,188 13 41,444 195 621,680 2,932 14 41,048 210 615,720 2,484 16 39,744 240 596,160 2,324 17 39,50	DI Bytes	Track (Capacity	Cylinder	Capacity
23,476	DL Bytes (Max)			Records	Bytes
23,476	47.476	1	47.476	15	712,140
11,476			1		1
9,076	15,476		46,428	45	696,420
7,476 6 44,856 90 672,840 6,356 7 44,492 105 667,380 4,820 9 43,380 135 650,700 4,276 10 42,760 150 641,400 3,860 11 42,460 165 636,900 3,188 13 41,444 195 621,660 2,932 14 41,048 210 615,720 2,676 15 40,140 225 602,100 2,484 16 39,744 240 596,160 2,324 17 39,508 255 592,620 2,164 18 38,952 270 584,280 1,876 20 37,520 300 562,800 1,780 21 37,380 315 560,700 1,684 22 37,048 330 555,720 1,396 25 34,900 375 523,500 1,332 26 34,6					
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	20	93	1,860	1,320	27,900

Equal Length Physical Records With Keys

KL+DL	Track C	apacity	Cylinder	Capacity
Bytes (Max)	Records	Bytes	Records	Bytes
47,240	1	47,240	15	708,600
23,240	2	46,480	30	697,200
15,240	3	45,720	45	685,800
11,240	4	44,960	60	674,400
8,840	5	44,200	75	663,000
7,240	6	43,440	90	651,600
6,120	7	42,840	105	642,600
5,256	8	42,048	120	630,720
4,584	9	41,256	135	618,840
4,040	10	40,400	150	606,000
3,624	11	39,864	165	597,960
3,240	12	38,880	180	583,200
2,952	13	38,376	195	575,640
2,696	14	37,744	210	566,160
2,440	15	36,600	225	549,000
2,248	16	35,968	240	539,520
2,088	17	35,496	255	532,440
1,928	18	34,704	270	520,560
1,768	19	33,592	285	503,880
1,640	20	32,800	300	492,000
1,544	21	32,424	315	486,360
1,448	22	31,856	330	477,840
1,352	23	31,096	345	466,440
1,256	24	30,144	360	452,160
1,160	25	29,000	375	435,000
1,096	26	28,496	390	427,440
1,032	27	27,864	405	417,960
968	28	27,104	420	406,560
904	29	26,216	435	393,240
840	30	25,200	450	378,000
808	31	25,048	465	375,720
744	32	23,808	480	357,120
712	33	23,496	495	352,440
680	34	23,120	510	346,800
616	35	21,560	525	323,400
584	36	21,024	540	315,360
552	37	20,424	555	306,360
520	38	19,760	570	296,400
488	39	19,032	585	285,480
456	40	18,240	600	273,600
424	41	17,384	615	260,760
392	42	16,464	630	246,960
360	44	15,840	660	237,600
328	45	14,760	675	221,400
296	46	13,616	690	204,240
264	48	12,672	720	190,080
232	49	11,368	735	170,520
200	51	10,200	765	153,000
168	53	8,904	795	133,560
136	55	7,480	825	112,200
104	57	5,928	855	88,920
72	59	4,248	885	63,720
40	62	2,480	930	37,200

First Edition (February 1983)

This reference summary is based on information in the IBM 3380 Direct Access Storage Description and User's Guide, Order No. GA26-1664.

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